

	54	US started up Pu production reactors R, K, L, P
Canada supplied India research reactor Cirus	55	US started up Pu production reactors KE, KW, C
	56	
Shippingport, the 1st US PWR operated, it was shutdown in 82 US supplied Brazil, Japan Denmark research reactors	57	Euratom formed IAEA formed
US supplied Belgium, Germany Spain Switzerland research reactors	58	
US supplied Italy research reactors	59	
US supplied Israel a research reactor	60	
	61	France exploded atom bomb Antarctica Treaty, NNWFZ in Antarctica
US supplied Taiwan, Korea research reactors	62	Indo-China War Cuban missile crisis US, UK, and USSR signed the Partial Test Ban Treaty (PTBT) prohibiting nuclear test in Atmosphere, underwater, and outer space
US supplied Vietnam a research reactor 1 st MOX used in BR#, Belgium	63	Israel operated a French-supplied reactor for Pu production

Peaceful Use of Nuclear Technology

Atoms for Peace

Proliferation of Nuc. Weapons Capability

India built Trombay reprocessing plant
US provided a research reactor to Iran

64

China exploded atom bomb

Soviet supplied DPRK research reactor IRT-2
DPRK built research center at Yongbyon
West Valley Reprocessing Plant completed
US supplied Pakistan, South Africa
research reactors

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Infcir 66

66

US supplied Iran a research reactor

67

Westinghouse of US and Framatom of France
built 1st PWR in France w/ license cooperation

68

UN G.A.
approved NPT,
62 states signed.

Tlatelolco Treaty, NNWFZ in Latin America

US supplied India power reactor Tarapur
Canada supplied Taiwan a research reactor TRR

69

70

NPT
in force

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72

First oil shock
Construction of US power reactor began, it
cooled off after TMI in '79.
Japan negotiated with US on reprocessing
spent US-origin fuel

73

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Peaceful Use of Nuclear Technology	Atoms for Peace	Proliferation of Nuc. Weapons Capability
AEC split into NRC and ERDA	74 Infirc 209 on Zagger Committee And Trigger List	India exploded peaceful nuclear explosion
	75 South Korea Joined NPT	S. Korea ended its secret nuclear weapons program
NRC issued GESMO rule making	76 Japan joined NPT	Taiwan ended its secret nuclear weapons program
FBR JOYO started in Japan US Department of Energy formed	77 DPRK signed Infirc 66	
US terminated Barnwell reprocessing plant Also terminated the Clinch River Breeder Reactor project	78 Infirc 254 on NSG guidelines And Trigger List	US Congress passed Nonproliferation Act
DPRK built graphite moderated, gas-cooled reactor Iranian revolution, 2nd oil shock TMI incident No new nuclear plant order in the US	79	Pakistan succeed in centrifuge enrichment, alleged based on Urenco design stolen by A. Q. Khan
IAEA organized International Nuclear Fuel Cycle Evaluation (INFCE)	80 US signed Safeguards Agreement with IAEA (Infirc 288) Infirc 274, Convention On physical protection Of nuclear material	
	81	Israel bombed the Iraqi Tamuz I reactor
US Congress passed NWPA	82	
	83	

Peaceful Use of Nuclear Technology	Atoms for Peace	Proliferation of Nuc. Weapons Capability
Chernobyl accident	84	Rarotonga Treaty, NNWFZ in South Pacific
	85 DPRK joined NPT	
	86	
	87	
	88	
US Congress passed NWPA, designating Yucca Mountain as candidate repository	89	End of Cold War
ABACC between Argentina and Brazil for the exclusively peaceful use of nuclear energy	90	Gulf War revealed Iraqi secret weapons program South Africa dismantled its weapons program
	91 South Africa Joined NPT	
	92 China, France joined NPT Belarus, Ukraine, Kazakhstan Joined NPT	
US PDD-13, US Nonproliferation Policy (no reprocessing for the US, and not encourage other countries to reprocess)	93 93+2 strengthened safeguards	IAEA was unable to verify DPRK's nuclear declarations Bangkok Treaty, NNWFZ in Southeast Asia Pelindaba Treaty, NNWFZ in Africa

Peaceful Use of Nuclear Technology	Atoms for Peace	Proliferation of Nuc. Weapons Capability
Japan Tokai explosion accident	94	US-DPRK Agreed Framework DPRK froze Pu production program US-Russia HEU blend-down Agreement US PDD-41 implement MCP&A with Russia on Nuclear material
	95	NPT review conference adopted indefinite extension
	96 9 countries Adhered to Infcirc 549 on Separated Pu declarations	UN GA approved Comprehensive Test Ban Treaty (CTBT)
	97 Infcirc 225/Rev4 Physical protection of nuclear material and facility	
	98 Infcirc 540 Additional Protocol	India and Pakistan exploded atom bombs UNSCOM withdrew all UN personnel from Iraq
Japan Tokai criticality accident USDOE implemented GEN IV program	99 Japan rectified Infcirc 540	US Senate failed to ratify CTBT
IAEA implemented INPRO activity BNFL falsification of Japan MOX fuel data Slowdown of Japan's MOX use program	00	US-Russia Pu disposition Agreement
	01	9/11 terrorist attacks
	02 China rectified Infcirc 540. US AP sent to Senate for consent To ratification	DPRK admitted secret U enrichment program, dispelled IAEA personnel, and withdrew from NPT
LLNL "Atoms for Peace: 50 years After" project	03	Potential war in Iraq DPRK restarted Pu production reactor